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A PROUD MEMBER OF THE NATIONAL MINORITY SUPPLIER DEVELOPMENT COUNCIL.

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December 17, 2019
Proposal # 1879Rev1

Subject: EcoVerde EG-Mini Skid Odor Control System for Mesa LS, San Luis AZ

Mr. Gonzalez,

EcoVerde is pleased to present a proposal for an EG-Mini Biological Odor Control system for the above referenced project. We are an experienced manufacturer of odor control equipment using vapor phase treatment of hydrogen sulfide/odor/other pollutants. Our proven systems are guaranteed to lower costs and eliminate odors while operating with the lowest carbon footprint available. The EcoVerde EG-t Series is a dual-technology scrubber that provides industry leading H₂S removal efficiencies by utilizing a unique design. By increasing both contact and residence time within the same physical footprint, we guarantee the most effective and comprehensive biological H₂S and odor removal system on the market.

EcoVerde's Synthetic Media which has the following advantages/properties:

- **15-year warranty** – longest amongst competitors
- No need to acid wash or clean even with extreme high H₂S concentrations
- Lowest water consumption in the market
- Even airflow distribution = removal rates ≥99% H₂S

Additional benefits of this cutting edge EG system are:

- Low installation, operation, and maintenance costs
- Convenient 'all-in-one' system
- Low carbon footprint
- Extremely low power consumption
- Self-sustainable synthetic media
- No media replacements or additions required

The following outlines the details of the system EcoVerde proposes for this site. It also provides system sizing, system warranties, and a performance table. Thank you for the opportunity to work with you.

Sincerely,




Luis Uribe
EcoVerde, LLC.

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1. Performance Table

		Project: Mesa, LS System: EG-Mini		
Performance Design				
Average H ₂ S Removal	%	≥ 99 %		or outlet < 0.5 ppm*
Odor Removal	%	>90 %		
Drain Water	pH	1.7-2.4		Lower H ₂ S ppm yields higher pH drain water
Design Parameters	Units	Range		Comments
Airflow (24/7)	CFM	40	150	Design for 130 cfm
<i>Estimated</i> H ₂ S concentration inlet	ppm	10	120	Average TBD
Process Air Temperature	°F	40	120	
Relative Humidity	%	60	100	
The air should be free from dust, grease and oil particles, etc. It is assumed that the air supply is continuous, 24 hours a day, 7 days a week and that the design criteria above referenced is met. <i>Heated air might be necessary if the process air temperature falls below the above stated parameters.</i>				
Utilities				
Water Quality	Potable or Non-Chlorinated Effluent - depending on site			
Required Flow Rate	gpm	10		<i>intermittent</i>
Water Pressure- dynamic	psi	20		
System Pressure Drop	" WC	< 1"		**

Notes

- *The system guarantees ≥99% average H₂S removal or 0.5ppm max out when inlet is lower than 10 ppm. System drain pH must be maintained between 1.75 and 2.50.*
 - *≥99% H₂S removal is guaranteed for up to two (2) times the average inlet concentration.*
- * The Owner must ensure that System is operated and maintained as verified through written records in accordance to Supplier's operation and maintenance manuals and within specified design criteria and performance table above.*
- ** Not including any pressure drop created by ductwork upstream of the blower.*

Irrigation water - quality required for an EG System:

Water	Effluent*
pH	6-8
Temp. Avg.	65 – 77° F (20-25° C)
Temp. Min/Max	59 – 99° F (15-37° C)

Property	Limits
COD	< 100 mg O ₂ /L
BOD	< 30 mg O ₂ /L
N _{tot}	= 2-20 mg N/L
P _{tot}	= 1-5 mg P/L
Chlorine	< 1 ppm (total Chlorine; e.g. Cl₂, OCl)
TSS	< 10 mg/L
Salts	< 2000 ppm (e.g. NaCl, KCl)
Hardness	< 400 mg CaCO ₃ (operated at pH = 2)

**If using potable water, the need to add EG-Assist nutrients to the system will be required to meet the performance specifications provided. If Chlorine levels are <1ppm, a carbon filter should be installed before the water cabinet.*

2. Estimated Operational Expenditures:

Parameter	Value	Notes
Operations and Maintenance Labor	Approx. 30 mins/week	
BTF Media (First Stage)	15 yr warranty	No maintenance or replacement needed.
Required Water Supply	10 GPM at 20 PSI Dynamic	Water use is intermittent.
Total Daily Water Use	± 792 GPD	Daily water use is proportional to the H ₂ S concentration and is based on 150 ppm on average. Estimate is based on using recirculation water for 25% of the time.
Nutrient Consumption*	± 20 – 30 lbs./55-Gal Drum	*If potable water is used. The pounds of nutrients will depend on the H ₂ S conc. level. Cost of nutrients will be \$12/ lbs.

3. EcoVerde's Scope of Supply (One Skid including the following items)

- **One (1) EG-Mini System:**

The vessel (4'-6" diameter x 8' height approx.) is constructed with HDPE with UV and Corrosion resistance. Tank includes all 316 S.S. hardware and EPDM gaskets, an FRP air distribution system, FRP grating to support the media, and HDPE stack. The structured synthetic media provides a contact time of approximately 24 seconds to treat all odorous compounds at maximum airflow rate.

- **One (1) Electrical Control Panel:**

The standard electrical controls include an HMI/PLC to monitor the system and all necessary components for proper functioning of the system. The panel comes prewired/preassembled and integral to the system. All electronic components are housed in a NEMA 4X enclosure and rated for class 1 division 2 environments. (it is recommended to shade the cabinet and face north).

- **One (1) Water Cabinet:**

The standard water controls include one Class 1 Division 2 solenoid valve, a flow meter, ball valves, diaphragm valve, a water pressure gauge, a nutrient metering pump, nutrient tank, and a recirculation pump.

- **One (1) blower:**

One (1) PP blower capable of up to 130 cfm with 2" W.C.

- **Lot of Ductwork and damper valve:**

6" ductwork including damper valve from the blower to the odor control system.

- **Start-up of Equipment and Training:**

A factory trained Field Service Engineer will be available for two (2) days for training and start-up of the system. Equipment training will coincide with start-up.

- **Freight:**

FOB – Factory – Prepaid to Jobsite

- **Freight:**

Four manhole inserts with carbon pillows for manhole odor control.

- **Lead Time:**

2- 3 weeks ARO

Items required that MUST be provided by others:

- **One (1) level pad:**
Used for placement of the skid
- **Electrical:**
Single phase 120/240V power must be available and brought to the EG ECP and blower.
- **Ductwork/ Plumbing/ Installation hardware:**
6" ductwork from the foul air source to blower. Related accessories/supports/hardware/anchors
2" PVC pipe from the drain of the system p-trap to the termination point.
1" fresh water supply line to the system water cabinet with a pressure reducing valve if necessary.
- **Fresh Raw Activated Sludge (RAS):**
Client will provide and add fresh RAS to the system sump for the first three (3) days of start-up or as instructed by EcoVerde.
- **Supply Water:**
Non-Chlorinated Potable or other water that meets quality standards available at all times at 40-75psi static and capable of sustaining an intermittent flow of 10gpm @ 15PSI.
- **System shipment/ offloading/ installation:**
Client will provide means to unload, place, and anchor the EG system on site.

4. Warranties:

System Warranty

EcoVerde's products are warranted against defects in material and workmanship for a period of twelve (12) months after start-up. In the event it is determined that a defect exists in such equipment, EcoVerde's sole obligation shall be to repair or replace the defective equipment.

Synthetic Media Warranty

The Owner must ensure that System is operated and maintained in accordance with specified design criteria through written records and in accordance with the instructions provided in the Supplier's operation and maintenance manuals. EcoVerde warrants the synthetic media against defects in material and workmanship for a period of fifteen (15) years from equipment delivery. In the event it is determined that a defect exists in the media, EcoVerde's sole obligation shall be to repair or replace the defective media. For this warranty item to be fulfilled, a completed logbook (Sample Logbook for the EcoVerde Odor Control System) must be filled out, up-to-date, and in accordance with the Operations and Maintenance manual.

Performance Warranty

The Owner must ensure that System is operated and maintained as verified through written records in accordance with specified design criteria and in accordance with the instructions provided in the Supplier's operation and maintenance manuals. The performance warranty is based upon the design parameters and a performance test. The warranty is subject to validation of operation of the equipment in accordance with EcoVerde's Operation and Maintenance Manual, and Equipment Startup and Operator training being performed by an EcoVerde service engineer.

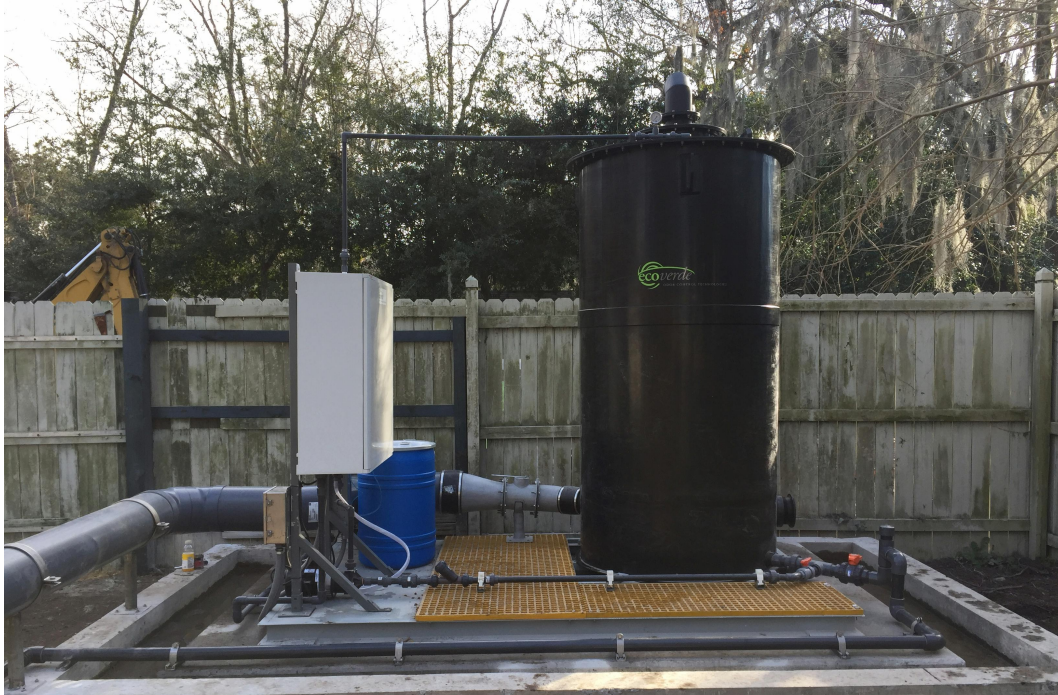
5. System Pricing: -----\$78,610.00

- ↳ The total price includes sales, use or any other taxes, duties or permit fees ("Taxes") associated with the purchase of this Equipment. Purchaser shall be responsible for payment of all taxes.
- ↳ No retainage is contemplated in this price.
- ↳ Prices are valid for 60 days from the date of this proposal.
- ↳ This price is based on EcoVerde's Standard Payment Terms depicted below.

Standard Payment Terms:

- 10% with Purchase Order
- 20% with Approved Engineering
- 60% at Delivery
- 10% NET ten (10) days after equipment startup and training but no longer than 60 days after delivery.

6. Sample Picture



ECOVERDE, LLC. STANDARD TERMS AND CONDITIONS OF SALE

Applicable Terms. These terms govern the purchase and sale of the equipment and related services. If any (collectively, "Equipment"), referred to in Seller's purchase order, quotations, proposal or acknowledgement, as the case may be ("Seller's Documentation"). Whether those terms are included in an offer or an acceptance by Seller, such offer or acceptance is conditions on Buyer's assent to these terms. Seller rejects all additional or different terms in any of Buyer's forms or documents.

Payment. Buyer shall pay Seller the full purchase price as set forth in Seller's Documentation. Unless Seller's Documentation provides otherwise, freight, storage, insurance and all taxes, duties or other governmental charges relating to the Equipment shall be paid by Buyer. If Seller is required to pay any such charges, Buyer shall immediately reimburse Seller. All payments are due within 14 days after receipt of invoice. Buyer shall be charged the lower of 1.5% interest per month or the maximum legal rate on all amounts not received from the date of the invoice until the date on which such invoice is paid and shall pay all of Seller's reasonable costs (including attorney's fees) of collecting amounts due but unpaid. All orders are subject to credit approval.

Delivery. The Delivery date set forth in the Proposal is the Seller's best estimate when the Equipment will be available for the carrier and shall not be deemed to represent a fixed or guaranteed delivery date. Unless Seller's Documentation provides otherwise, deliver terms are F.O.B. Seller's facility. Delivery shall be deemed to have been made when Seller place the Equipment in the possession of a carrier selected by Buyer (or Seller with Buyer's approval) at which time Buyer shall bear the risk of loss for the Equipment. If conditions do not permit immediate

installation, storage of FRP materials as well as all other products delivered by Seller must be in accordance with instructions included in Seller's O&M. Seller assumes no liability and expressly disclaims responsibility for any loss or damage, direct, indirect or consequential, due to improper storage.

Ownership of Materials. All devices, designs (including drawings, plans, specifications, and manuals), estimates, prices, notes, electronic data and other documents or information prepared or disclosed by Seller, and all related intellectual property rights, shall remain Seller's property. Seller grants Buyer a non-exclusive, non-transferable license to use any such material solely for Buyer's use of the Equipment. Buyer shall not disclose any such material to third parties without Seller's prior written consent.

Changes. Seller shall not implement any changes in the scope of work described in Seller's Documentation unless Buyer and Seller agree in writing to the details of the change and any resulting price, schedule or other contractual modifications. This includes any changes necessitated by a change in applicable law occurring after the effective date of any contract including these terms.

Seller's Liability for Shortages, Delivery of Improper Material or Delivery of Damages or Defective Material. The buyer agrees to carefully check material upon unloading at destination. No claims for shortages or delivery of improper material shall be recognized by seller unless written notice with accompanying photos of the material specifying in detail the nature and extent of the shortage, effect, or damage is mailed or emailed to Seller within ten (10) days from receipt. In no case shall Seller pay or be liable for any claims resulting from the use of the Buyer or improper material or use by the Buyer of having material apparent defects or damages when installed by the buyer.

Cancellation. In the event that any order is canceled, either in whole or in part, the Buyer shall pay to the Seller all of the cost incurred by the Seller incident to such cancellation, including, but not limited to engineering costs, costs of special tools, equipment and raw material plus 30% thereof for restocking or cancellation fees. In addition thereto, the Buyer shall pay the unit price for all items of special manufacture completed before the seller receives notice of cancellation.

LIMITATION OF LIABILITY. NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND SELLER'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE EQUIPMENT SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE EQUIPMENT. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.

Miscellaneous. If these terms are issued in connection with a government contract, they shall be deemed to include those federal acquisition regulations that are required by law to be included. The parties specifically exclude the provisions of the United Nations Convention On Contracts For the International Sale of Goods. These terms, together with any quotations, purchase order or acknowledgement issues or signed by the Seller, comprise the complete and exclusive statement of the agreement between the parties ("The Agreement") and supersede any terms contained in Buyer's documents, unless separately signed by Seller. No part of the Agreement may be changed or cancelled except by a written document signed by Seller and Buyer. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. Buyer may not assign or permit any other transfer of the Agreement without Seller's prior written consent.

Governing Law. This Agreement and the rights of the parties hereunder shall be interpreted in accordance with the laws of the State of Arizona, and all rights and remedies shall be governed by such laws without regard to any provision that would result in the application of the laws of any other state or jurisdiction.